Work Orde				*957	706*					Page 1	
Item ID: Revision ID:	D3017-041			*N900040100* Setup Start Stop							
Item Name:	Back Frame A	ssembly					° *N:	S2*			
Start Date:	1/16/13	Start Qty: 1.00	*1*		Cust Item 1	Cust Item ID:			;		
Required Date:	2/08/13	Req'd Qty: 1.00	*1*		Customer:		,			•	
Reference:		•									
Approvals:	Process Pla	n: ML5	Date: \\3-0\-\	& Tooling:	D	ate:		F	Run Star	1/1	R1*
	QC:		Date:	_ SPC (Y/N):	D	ate:			Stop	*N	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Rev	ision Nbr					, 47110,411				-
D3017	Rev	В			./						
100		Weld per dwg A/R 4130	0 rod Batch: M11887	0.00						/	
100 Large Fab		Large Fab Memo		0.00				Ø	_Q_	180	1342
Large Fab			7-1, D3017-3 and D3017-5	tubes as per Dwg D301	17						
		2-Bend D30	17-1 and D3017-3 tube as	per dwg D3017 (DT859)	8)						
		3-Drill holes	s in D3017-5 Using DT862	22							
		4-Deburr									
		5-Assemble	and weld as per Dwg D30	17 using Welding Jig DT	8598 PD						
			s in back frame using DT86								
*110 *11 0 *		QC9- Inspect visual per (QS1004- Fusion Welds	0.00				/	6	13-04	6A 18 18
QC		Memo		0.00						· • • · • ·	· - / "

Quality Control

											DQA:	Date:				
NCR:	Yes	/ No				WORK ORDER NON-C	COI	NFORM	MANCE / UF	PDATE						
											QA Closed:	Date:				
Work Ord	er.					DISPOSITION				AGAINST DE	AGAINST DEPARTMENT/PROCESS					
, Work Ord	C1.					Rework		Skid-tube	Crosstube		Water Jet	Engineering				
Part	No.					Scrap		Machining	Small Fab	Pro	d. Eng. Coor.	Quality				
			•			Use-as-is Thermoforming			Finishing	Rec/Sto	re/Packaging	Other				
NCR	No.			· · · · · ·		Work Order Update Large Fab Composite]	Supplier					
Root					Descri	ption of work order update	Initial	A	ction	Sign &						
Cause		Date	Step	Qty		or Non-conformance			Des	cription	Date	Verification	QC Inspector			
Doc/Data						-										
Equip/Tooling			Ì													
Operator	<u></u>		İ						•							
Material																
Setup																
Other	L															
Process																
Supplier	L															
Training	L															
Unapproved				<u> </u>			<u> </u>									
						F/	AUL	T CATE	GORY	· · · · · · · · · · · · · · · · · · ·						
Landi	_	τ				General	_	,	•	<u>,</u>	,		1			
	<u>L</u>	Bending				Bend	L	Grain			Ovalized		Pressure/Forced			
		Centre No	ot Concer	ntric to	o/s	BOM/Route	L	Hardwa	re		Over/Under	tolerance	Temperature/Cure			
		Cracks				Broken/Damaged	L	4	on Incomplete		Part Incorre	ct	Weld			
	Crushed/Crimped.					Burrs		Instruct	ions Incomplete	/Unclear	Part Lost/M	issing	Wrong Stock Pulled			
	<u>L</u>	Cuffs				Contamination		Mainte	nance		Part Moved					
	匚	Heat Treat				Countersink		Mislabe	led		Positioned V	Wrong	-			
		Inspection Strip in Tube				Cut Too Short		Misread	!		Power Loss/	'Surge	Other			

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

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Work Orde				*957		414,-,			Page 2			
Item ID: Revision ID:	D3017-041			Accept	*N900	040	100)*	Setup	Start	*N	S1*
Item Name:	Back Frame A	Assembly								Stop	*N	S2*
Start Date:	1/16/13	Start Qty: 1.00	*1*		Cust Item I	D:						
Required Date:	2/08/13	Req'd Qty: 1.00	*1*		Customer:							
Reference:										~		
Approvals:	Process Pla	an:	Date:	Tooling:	D:	ate:]	Run	Start	*N	R1*
i			Date:	_ SPC (Y/N):	Date:					Stop	*N	R2*
Sequence ID/ Work Center I		Operation Description	•	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Re Qt		Reject Number	Insp. Stamp
120		QC5- Inspect part comp	leteness to step on W/O	0.00								OASI
120 QC Quality Control		Memo		0.00			(D 13	7-01	1-04	•	0 9)
130		Grey Sandtex(Ref:4.3.5.	6) per QS1005 4.3	0.00				/	/		/	. /
130 Powdercoat		Mana	, r, H	3 0.00 -			/	XY		M	L 13	104/04
Powder Coating Mark Laboration 140	266	Memo START TIN OVEN TEN FINISH TIN	MPERATURE:	3230								
140		QC3- Inspect Part Finish	•	0.00							A A .	, (
140 _{QC}		Memo		0.00				14		u	<u> </u>	cy local od

Quality Control

NCR: Y	es / No				WORK ORDER NON-	CONFO	RMANCE / UI	PDATE	QA Closed:	Date:				
Work Orde	er:				DISPOSITION		AGAINST DEPARTMENT/PROCESS Skid-tube Crosstube Water Jet Enginee							
Part N					Rework Scrap Use-as-is Work Order Update	Scrap Machining Small Fab Use-as-is Thermoforming Finishing				Prod. Eng. Coor. Rec/Store/Packaging				
Root	Ď-t-	Chara	0	i .	ption of work order update	1	Initial Action		Sign &	Verification	OCImpostor			
Cause	Date	Step	Qty	'	or Non-conformance	Chief Er	ig Des	cription	Date	vernication	QC Inspector			
Doc/Data	_													
Equip/Tooling														
Operator	_								İ					
Material	_													
Setup				,										
Other														
Process								•		İ				
Supplier	_													
Training	-													
Unapproved			1			AULT CA	TEGORY		<u> </u>		<u> </u>			
Landin	ng Gear				General	AULI CA	IEGORI				<u> </u>			
	Bending				Bend	Grain	2		Ovalized	[-	Pressure/Forced			
ŀ	Centre N	ot Conce	ntric to		BOM/Route	Hard		<u> </u>	Over/Under	tolerance	Temperature/Cure			
F	Cracks	or concei	incre to	⁰ / ₃	Broken/Damaged	_	ection Incomplete	<u> </u>	Part Incorre		Weld			
F	Crushed/	Crimped			Burrs	—	actions incomplete	/Unclear	Part Lost/M	-	Wrong Stock Pulled			
-		crimpeu.			Contamination		ntenance	., officient	Part Moved	_	Tri ong Stock i diled			
}	Cuffs Heat Treat			·	Countersink	\vdash	ibeled	<u> </u>	Positioned \					
}	Inspectio		Tuhe	-	Cut Too Short	Misre		H	Power Loss,		Other			
}	Ripples in		TUDE		Drill Holes	Offse		L	J. 5**C. 2033/		Total			
F	Torque W		extrusio	, <u> </u>	Drawing		of Calibration							
				- 1	[- · · - · · · · · · · · · · · · · · ·	1 1								

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

	Work Order ID 95706 anuary-18-13 10:00:16 AM			*957				Page 3			
Item ID: Revision ID:	D3017-041	1		Accept	*N900	040	100)*	Setup Sta	i /	S1*
Item Name:	Back Frame	Assembly							Sto	^ρ *Ν	S2*
Start Date:	1/16/13	Start Qty: 1.00	*1*		Cust Item I	D:					
Required Dat	e: 2/08/13	Req'd Qty: 1.00	*1*		Customer:						
Reference:		-					_	.	Run Sta		
Approvals:	Process P	Plan:	Date:	,Tooling:	Da	Date:				! <i>\</i>	R1*
• •	QC:		Date:	SPC (Y/N):	Date:				Sto	*N	R2*
Sequence ID/ Work Center		Operation Description Identify as per dwg & St	tock Location G A	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
1 50 Packaging		Memo		0.00				11			J3/09/
160		QC21- Final Inspection	- Work Order Release	0.00				,	12/1	100	Ω
160		Memo		0.00	•				1714	19	7)

Quality Control

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											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	AANCE / UP	DATE			
											QA Closed:	Date:	
Work Ord	er.					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Part I	No	,				Rework Scrap Use-as-is Work Order Update	Scrap Machining Small Fab Use-as-is Thermoforming Finishing				4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root					Descri	tion of work order update		I Initial	Ad	ction	Sign &		
Cause		Date	Step	Qty	I .	or Non-conformance	Cr	nief Eng	Desc	cription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved	ta soling sor sor sor sor sor sor sor sor sor sor												
						F.	AUL	T CATE	GORY				
Landi	ng G	ear				General	_	,		_	,	_	_
		Bending Centre No Cracks	ot Concer	ntric to	o/s	Bend BOM/Route Broken/Damaged	L	Grain Hardwa	re on Incomplete		Ovalized Over/Under Part Incorre		Pressure/Forced Temperature/Cure Weld
		Crushed/	Crimped.			Burrs		4	ions Incomplete,	/Unclear	Part Lost/M	<u> </u>	Wrong Stock Pulled
		Cuffs Heat Trea				Contamination Countersink		Mislabe	led		Part Moved Positioned \	_	٦
		Inspection Strip in Tube				Cut Too Short	-	Misread		_	Power Loss/	'Surge	Other

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence
Wave/Twist in Tube

Torque Waves in Extrusion

Drawing Finish

Folio

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Work Order ID:

95706

Parent Item:

D3017-041

Parent Item Name:

Back Frame Assembly

Comments:

IPP A01.09.19New issue EC

Start Date: 1/16/13

Required Date: 2/08/13

Start Qty: 1.00

Required Qty: 1.00

	IPP RevB: as per re	CVB DD Verified o	y JLIVI										
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M4130NT0.750W.083 4130 RD Tube .750 x.083\	v	Purchased	No			100	f	28.4126	2.458	2.5873684 	13.4.	2	
i				Location		Loc Qty	<u>L</u> e	oc Code					
				MAT033		28.4126316							
					973	2.4126316				· · · · · ·			
				124	1293	26				1.58			
M4130NT0.750W.049 4130 RD Tube .750 x.049	W	Purchased	No			100	f	145.0218	11.125	11.710526 	13.4-	<u> </u>	
				Location		Loc Qty	L	oc Code					
				MAT033	_	145.0217893							
				` 123	1339	27.5217893			_2,	<u> در</u>			
				124	1293	117.5				<u> </u>			
D3017-11 cap		Manufactured	No			100	Each	56.0000	2	EL_1/2.	4-2		
				Location		Loc Oty	<u>L</u>	oc Code					
				WA002		56							
				QI	332	56			_ 2_				
D3017-7	•	Manufactured	No			100	Each	8.0000	3	$\{2, \frac{3}{2}\}$	H _		
Lug										<u> 52 / 3</u>	7-0	·	
				Location		Loc Qty	<u>L</u>	oc Code					
				WA002		8							
				868	373	8							
				98	460	× >					N,		

Page 1

NCR:	Yes	/ No				WORK ORDER NON-	CONFO)RI	MANCE / UPI	DATE						
									•	·	QA Closed:	Dat	te:			
Work Ord	er:	4500	,			DISPOSITION				AGAINST DEPARTMENT/PROCESS						
Part I	No.				<u> </u>	Rework Scrap		Skid-tube Crosstube Machining Small Fab			4	Water Jet	Quality			
NCR I	No.					Use-as-is Work Order Update	-		noforming Large Fab	Finishing Composite	Rec/Store/Packaging Othe					
Root					Descri	ption of work order update	Initia	al	Act	tion	Sign &		1			
Cause		Date	Step	Qty		or Non-conformance	Chief E	ng	Descr	ription	Date	Verification	n QC Inspector			
Doc/Data							:									
Equip/Tooling	Ш	·														
Operator												Ì				
Material																
Setup																
Other																
Process																
Supplier	Ш															
Training							1									
Unapproved			<u> </u>									<u> </u>				
						F	AULT CA	ATE	GORY							
Landi	ng G	Sear				General					-					
		Bending				Bend	Grai	in			Ovalized	į	Pressure/Forced			
	Ш	Centre No	ot Concer	ntric to	o/s	BOM/Route	Hard	dwa	re		Over/Under	tolerance	Temperature/Cure	!		
	Ш	Cracks				Broken/Damaged	Insp	ecti	on Incomplete		Part Incorre	ct	Weld			
	Ш	Crushed/0	Crimped.			Burrs	Instr	ruct	ions Incomplete/l	Jnclear	Part Lost/M	issing	Wrong Stock Pulled	d		
		Cuffs				Contamination	Mai	inte	nance		Part Moved					
		Heat Trea	it			Countersink	Misl	labe	led		Positioned \	Wrong				
		Inspection	n Strip in	Tube		Cut Too Short	Misr	read	l		Power Loss/	'Surge	Other			
		Ripples in	Bend			Drill Holes	Offs	et			_					
		Torque W	aves in E	xtrusio	n	Drawing	Out	of C	Calibration							
		Turning Se	equence			Finish	Out	of S	equence							
		Wave/Twist in Tube				Folio	Outs	Outside Dimensions								

DQA: ___ Date:

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